

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An atmosphere modifying device comprising:
 - a. a carbon dioxide emitter, wherein the carbon dioxide emitter emits is adapted to emit carbon dioxide at a rate of about 1 cubic centimeter centimeters per hour or greater, and
 - b. an oxygen scavenger,
wherein the device is adapted for placement in a produce container to prolong produce storage life.
2. (Original) The device of claim 1, wherein the carbon dioxide emitter comprises:
 - i. a carbonate selected from the group consisting of a monocarbonate, a bicarbonate, and combinations thereof; and
 - ii. an organic acid.
3. (Original) The device of claim 2, wherein the ingredients i and ii are present in a molar ratio ii:i of about 0.3:1 to about 5:1.
4. (Original) The device of claim 2, wherein the monocarbonate and the bicarbonate are present in a molar ratio monocarbonate:bicarbonate of about 0:1 to about 100:1.
5. (Original) The device of claim 2, wherein the monocarbonate is sodium carbonate, the bicarbonate is sodium bicarbonate, and the organic acid is citric acid.

6. (Original) The device of claim 2, wherein the carbonate has an average particle size of about 5 to about 1000 micrometers.

7. (Original) The device of claim 1, wherein the oxygen scavenger is selected from the group consisting of an iron source mixed with a salt and ferrous carbonate mixed with ascorbic acid.

8. (Currently Amended) The device of claim 7, wherein ~~the amounts of the iron source and the salt are selected such that the oxygen scavenger removes is adapted to remove~~ oxygen at a rate of about 5 cubic centimeters per hour or greater.

9. (Original) The device of claim 1, further comprising: c. an ethylene scavenger.

10. (Original) The device of claim 9, wherein the ethylene scavenger is selected from the group consisting of CaO₂, modified alumina, zeolite impregnated with permanganate, activated carbon, and combinations thereof.

11. (Currently Amended) ~~The device of claim 10, An atmosphere modifying device,~~ wherein the device comprises a first compartment containing ~~the~~ a carbon dioxide emitter, a second compartment containing ~~the~~ an oxygen scavenger, and a third compartment containing ~~the~~ an ethylene scavenger; wherein the first, second and third compartments comprise a gas permeable material.

12. (Original) The device of claim 11, wherein the first, second, and third compartments comprise a liquid impermeable material.

13. (Original) The device of claim 9, wherein the device comprises a compartment containing more than one of components a, b, and c.

14. (Original) The device of claim 9, wherein components a, b, and c are generally recognized as safe materials.

15. (Original) The device of claim 9, wherein the device further comprises one or more components selected from the group consisting of;

an activator,
a controller controlling emission rate of carbon dioxide and scavenging rate of oxygen and ethylene,
a moisture controlling mechanism,
a biological active,
a carbon monoxide emitter, and
an antimicrobial emitter.

16. (Withdrawn) A package for keeping produce fresh comprising:

i. a container, and
ii. an atmosphere modifying device according to claim 1 contained within the container.

17. (Withdrawn) The package of claim 16, wherein the package further comprises one or more components selected from the group consisting of:

an activator,

a controller controlling emission rate of carbon dioxide and scavenging rate of oxygen and ethylene,
a moisture controlling mechanism,
a biological active,
a carbon monoxide emitter, and
an antimicrobial emitter.

18. (Withdrawn) The package of claim 16, wherein the device modifies the atmosphere in the headspace of the container to contain about 2 to about 21 volume % oxygen, about 0.5 to about 40 volume % carbon dioxide, and about 0 to about 10 parts per million ethylene.

19. (Withdrawn) The package of claim 18, wherein the device modifies the atmosphere in the headspace of the container to contain about 5 to about 10 volume % oxygen, about 3 to about 15 volume % carbon dioxide, and about 0 to about 0.1 part per million ethylene.

20. (Withdrawn) The package of claim 16, wherein the device modifies the atmosphere in the headspace of the container within about 0.5 to about 24 hours after produce is placed in the container and the container is closed.

21. (Withdrawn) The package of claim 16, wherein the container comprises a first compartment for containing the atmosphere modifying device and a second compartment for containing produce, wherein the first compartment and the second compartment are separated by a liquid and vapor permeable barrier.

22. (Withdrawn) The package of claim 16 wherein said container and said atmosphere modifying device are integrated into a single component.

23. (Withdrawn) A method for prolonging storage life of produce comprising:

1) placing the produce in a container with an atmosphere modifying device according to claim 1, and

2) closing the container.

24. (Withdrawn) The method of claim 23, further comprising:

3) opening the container to add or remove produce at least one time, and

4) reclosing the container.

25. (Withdrawn) The method of claim 23, wherein the device modifies the atmosphere in the headspace of the container to contain about 2 to about 21 volume % oxygen, about 0.5 to about 40 volume % carbon dioxide, and about 0 to about 10 parts per million ethylene after the completion of step 2).

26. (Withdrawn) The method of claim 25, wherein the device modifies the atmosphere in the headspace of the container to contain about 5 to about 10 volume % oxygen, about 3 to about 15 volume % carbon dioxide, and about 0 to about 0.1 part per million ethylene.

27. (Withdrawn) The package of claim 23, wherein the device modifies the atmosphere in the headspace of the container within about 0.5 to about 24 hours after completion of step 2).

28. (Withdrawn) The method of claim 24, wherein the device modifies the atmosphere in the headspace of the container to contain about 2 to about 21 volume % oxygen, about 0.5 to about 40 volume % carbon dioxide, and about 0 to about 10 parts per million ethylene after step 4).

29. (Withdrawn) The method of claim 28, wherein the device modifies the atmosphere in the headspace of the container to contain about 5 to about 10 volume % oxygen, about 3 to about 15 volume % carbon dioxide, and about 0 to about 0.1 part per million ethylene.

30. (Withdrawn) The package of claim 24, wherein the device modifies the atmosphere in the headspace of the container within about 0.5 to about 24 hours after completion of step 4).

31. (Withdrawn) The method of claim 23, further comprising washing the produce prior to step 1).

32. (Withdrawn) The method of claim 31, further comprising drying the produce after washing.

33. (Withdrawn) The method of claim 23, further comprising refrigerating the container.

34. (Withdrawn) A method for promoting sale of produce comprising: providing informational indicia in association with the produce to indicate and/or communicate to a consumer of the produce that the produce can be kept fresh for longer periods of time by storing the produce in a package comprising:

i. a container, and

ii. an atmosphere modifying device according to claim 1 contained within the container.

35. (Withdrawn) A kit for prolonging the storage life of produce comprising:

a) an atmosphere modifying device according to claim 1,

b) a gas impermeable packing material containing the atmosphere modifying device,

and

c) information or instructions, or both, describing how to use the atmosphere modifying device.

36. (Withdrawn) The kit of claim 35, further comprising:

d) a container.

37. (New) The device of claim 11, wherein the device is adapted for placement in a produce container to prolong storage life.

38. (New) The device of claim 15, wherein the activator is a water capsule.

39. (New) An atmosphere modifying device comprising:

a. a carbon dioxide emitter, wherein the carbon dioxide emitter is adapted to emit carbon dioxide at a rate of about 1 cubic centimeter per hour or greater, and

b. an oxygen scavenger,

wherein the device is adapted for placement in an oxygen permeable produce container to prolong produce storage life.

40. (New) The device of claim 39, wherein the oxygen permeable container comprises paper, fabric, or combinations thereof.

41. (New) The device of claim 39, further comprising: c. an ethylene scavenger.

42. (New) The device of claim 41, wherein the device comprises a compartment containing more than one of components a, b, and c.

43. (New) The device of claim 41, wherein the device further comprises one or more components selected from the group consisting of:

an activator,

a controller controlling emission rate of carbon dioxide and scavenging rate of oxygen and ethylene,

a moisture controlling mechanism,

a biological active,

a carbon monoxide emitter, and

an antimicrobial emitter.

44. (New) The device of claim 43, wherein the activator is a water capsule.